

## HARVEY LOGAN

Read Our Great Story On The Inside Page  
"Nan of Music Mountain"  
Where This Noted Outlaw Is Mentioned As  
One Of The Principal Characters



By FRANK H. SPEARMAN  
Author of "Whispering Smith"

HOW would you like  
the job of cleaning out  
a gang of desperate out-  
laws who long had terrorized  
the country surrounding their  
mountain home?

That is the job assigned to Henry de Spain, young, good looking, a crack shot and who knows no fear. He accepts the task and meets Nan, a high-spirited niece of the leader of the band.

There are many thrilling adventures in the war that follows—hand-to-hand combats, pursuits, captures and escapes through all of which is interwoven his growing love for the mountain lass.

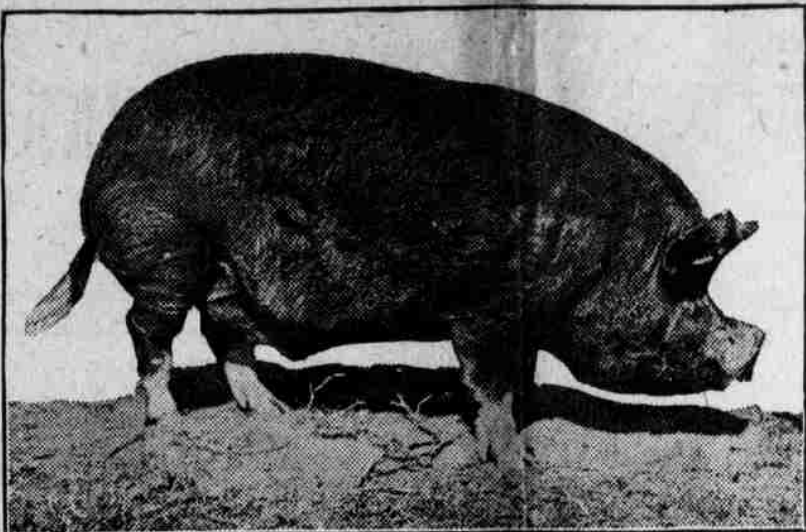
Here is a story as interesting and absorbing as any you have read in a long time. It is our new serial and we want you to be on the lookout for the first installment. You will miss a big treat if you don't read it.

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and The Daring, Dashing HARVEY LOGAN

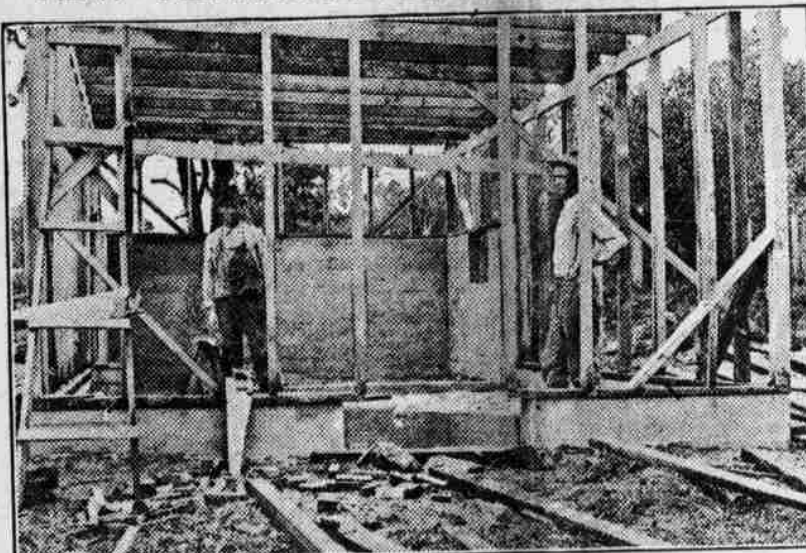
### AUGUST HOG PRICES GO HIGH



August markets at Chicago received hogs at \$11.60 and newspapers told of prophets who said that hogs would reach the \$12 mark. At such times farmers turn their eyes to the hog. Tennessee farmers especially should see the value of the hog for them.

With the possibility for pastures in Tennessee, hogs can be produced at a low profit when some of the northern corn-belt farmers may have difficulty in coming out even, although prices are high. Tennessee was made for live stock.

### NEW TENNESSEE CHEESE FACTORY



At Fuller, Johnson county, eight miles from Mountain City, this building is being erected for a cheese factory. Here will be manufactured whole-milk cheddar cheese, known at many of the retail stands as American full-cream cheese. This entire factory, including its equipment, will not

cost more than \$700, but the products turned out from it will be of immense value to the farmers of the community, for it will bring profits from the milk of their one hundred cows. The president of this cheese factory association is J. N. Willis, of Fuller; the secretary and business manager is Capt. John T. Fuller.

### HARDWOOD ASHES TAKE THE PLACE OF POTASH

Must Be Protected From Rain or Most of the Fertilizing Elements Will Be Washed Out.

(By C. E. Allred, Division of Extension, University of Tennessee.)

Since the beginning of the European war it has been almost impossible to get potash for use as fertilizer because heretofore we got our supply from the potash beds of Germany. The United States Government is now searching for other deposits, or for some method of manufacturing potash from such waste products as seaweed. In the meantime some farmers already have a good substitute near at hand. Unleached hardwood ashes are fine and should be used in all cases where they can be had. One thousand pounds of hardwood ashes contain about 50 pounds of potash, 5 pounds of phosphorus and 500 pounds of lime, before they are leached. If the ashes are permitted to stand in the rain before applying, at least four-fifths of the potash will leach out and be lost. One-fifth of the lime will be lost also.

In the early history of manuring wood ashes were practically the only semi-artificial method of fertilizing. They contain plant food in a form which is immediately available to the crops, and the lime present always has a good effect on the physical condition of the soil.

### IMPORTANT CAMPAIGN FOR MORE CLOVERS

Three States Believe Legumes Will Help Their Soils and Work Actively for Greater Plantings.

Arkansas, Mississippi and Tennessee have joined hands in a movement for the enrichment of the soils of the three states. Each state would grow more legumes. The bankers and business interests, recognizing that on the farmers' prosperity depends theirs, are back of the movement.

For the Campaign the Tri-State Better Farming Committee has prepared special printed information. This committee is composed of representatives of the following agencies: The United States Department of Agriculture, State Departments of Agriculture, Divisions of Extension of College of Agriculture, State and County Boards of Education, Farmers' Organizations, Farm Bureaus of Memphis and Little Rock, Bankers' Organizations, Business Men's Organizations, Merchants, Agricultural Departments of all the Railroads, the Press, Rural Churches, Women's Clubs.

The printed information concerning the growing of legumes is available to any one in the state. Every one is urged to put out at least a small patch of legumes. Try some crimson clover, which will act as a cover crop, preventing the washing of the land, and which, when plowed under in the spring, will enrich the soil.

The entire Legume Campaign is based upon the fact that legumes will do what other plants will not do. Legumes will take from the air the nitrogen, which, if bought for the land

as commercial fertilizer, is very expensive, and will store it in the leaves and roots. When the plants are turned under, the soil gets the benefit of that nitrogen, besides being supplied with needed humus. It is this value in the legume that makes it of such importance to Tennessee farmers.

### FOR WOMEN'S EYES

(By Geneva Conway, Division of Extension, University of Tennessee.)

If the cane-seated chair sags, wash it in hot soap suds and dry it in the open air. This will tighten it.

To clean copper use one tablespoon of salt, one cup of flour, one cup of vinegar. Make into a paste. After the copper is cleaned, wash and dry it out with a cloth saturated with turpentine. This will keep the copper bright.

Finish corset covers and night gowns by binding the neck with bias strips of sheer lawn, or of dotted swiss. Through this run a fine crochet cord or white tape. Edge with lace, if a fancy garment is desired. Colored ribbons do not wash well and are not found in the best-made garments.

When washing the hair, add a little baking soda to the water. It tends to neutralize the acid in the perspiration. This gives a fresh odor. Borax cleans, but is likely to make the hair brittle and turn it gray. It has often been said that too much washing is not good for the hair, but one will have a nicer head of hair from frequent washing than from a clogged scalp. Rub the scalp vigorously with the fingers and keep it loose from the head.

### WHEN ALFALFA GETS THIN

Alfalfa does not always do well. It gets thin. Chick weed or some similar weed takes possession of the bare spots and makes other places bare by its crowding. What can be done?

At the University Farm, Knoxville, grass was seeded in the thin fields. Several grasses were tried. About a bushel of seed to the acre was used. The grass did well, particularly the orchard grass which was able to fight the chick weed successfully. Tall meadow oat grass did not do so well, but where timothy was seeded heavily the chick weed was held in check.

The resulting double crop of grass and alfalfa is preferred by some feeders. In Kansas and Nebraska, where brome grass and alfalfa come without effort, it is quite common for the farmers to allow the two crops to grow in the same field at the same time. The double crop is fed to live stock, and some say that the stock relish it much better than they do either the clear grass or alfalfa. When market hay is to be sold the two crops are grown separately.

In Tennessee, however, it is advisable to sow grass in alfalfa only when the alfalfa gets thin. Then it does much good.

### BUILD FOR THE FUTURE

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COUNTY COURT LAND SALE.

No. 3889.

H. L. England, Admr. vs. Wm. Shippe, et al.

Pursuant to a decree pronounced in the above cause at the January term, 1917, in the county court of Knox county, Tennessee, I will offer for sale to the highest bidder, at the north door of the court house, in Knoxville, Tenn., on Saturday, the 24th day of February, 1917, at 11 o'clock a. m., the lands described in the pleadings. Situated in the third civil district, first tract beginning at a stake on the line of a large ridge, Epps corner in line of a fifty acre survey, thence with Epps line S. 45 deg. E. 80 poles to two black oaks, thence N. 46 E. 7 1-2 poles to two black oaks corner to Harris old tract, thence S. 40 E. 4 poles to a stake in the great road, thence along said road with the center of the same to a line of a tract of land purchased by Moses Susby of Stephen Harris, thence with said line 8 poles to a stake in Alexander Morrow old line, thence with said line due W. 31 poles to a stake conditional corner between Churley Morrow and Moses Susby, thence with a line made by said Morrow and Susby N. 13 W. 29 poles to a stake, thence N. 30 W. 36 poles to a bunch of small hickories in Morrow's old line, thence along said line to beech at the branch corner to Stair's and Susby, thence with Stair's line to the top of the ridge to the beginning, the above mentioned tract of land is situated on the waters of Dook's branch in the aforesaid Knox county, and state of Tennessee, containing 52 acres more or less.

Second tract. Beginning at a stake on the side of the hill in said Shippe's line; thence 13 deg. E. 39 poles to a stake in Geo. Shippe's line; thence with said line due east 8 3-4 poles to a stake; with a conditional line 40 poles to the beginning, containing 1 acre more or less.

Terms: Said land will be sold for 1-3 cash, balance in 6 months, taking

interest bearing note with good personal security and retaining a lien on land as further security, in bar of all homestead and equity of redemption rights to all the parties hereto, subject to homestead and dower rights of Leah E. Shippe.

JESSE L. HENSON,  
County Court Clerk.

W. E. DRUMMOND, Sol.  
2-3-10-17-24.

### NON-RESIDENT NOTICE.

TO JOHN BAKER, SARAH DUNLAP AND WILLIAM BAKER.

J. A. Houser, Administrator. vs. Martha Ann McDermott, et al.

In the County Court of Knox County, Tennessee. No. 4078. In this cause it appearing from the bill filed, which is sworn to, that the defendants John Baker, William Baker Sarah Dunlap are non residents of the State of Tennessee that the ordinary process of law cannot be served upon them. It is therefore ordered that publication be made for four consecutive weeks in the Knoxville Independent, a newspaper published in Knoxville, Tenn., requiring said defendant to appear before the County Court of Knox County, Tenn., on or before the first Monday in April 1917 and make defense to said petition or the same will be taken for confessed by them and the cause set for hearing ex parte as to them.

This 16th day of February 1917  
JESSE L. HENSON,  
County Court Clerk.  
T. L. Carty, Sol.  
Feb. 17 24 Mar. 3 10 1917

Please name the ten largest cities of Germany and of France.

Of Germany, by the census of 1910, Berlin, 2,071,267 (Greater Berlin, 3,710,000); Hamburg, 932,116; Leipzig, 625,267; Munich, 607,592; Dresden, 551,697; Cologne, 516,527; Breslau, 514,765; Frankfurt-on-the-Main, 414,576; Dusseldorf, 353,728; Nuremberg, 333,142. In France, by the census of 1911, Paris, 2,888,110; Marseilles, 550,619; Lyons, 523,796; Bordeaux, 261,678; Lille, 217,807; Nantes, 170,535; Toulouse, 149,678; Saint-Etienne, 148,656; Nice, 142,040; Havre, 136,159. The total population of Germany in 1910 was 64,925,983; of France in 1911, 39,601,509.

To settle an argument please tell me who discovered electricity.

Electricity as drawn from rubbing amber was known to Thales, 600 B. C. Gilbert records that other bodies besides amber generate electricity when rubbed and that all substances may be attracted. He was the first to use the term "electric," as electric force, electric attraction, etc., in 1600. Otto von Guericke constructed the first electric machine about 1647. Franklin "killed a turkey by the electric spark and roasted it by an electric jack before a fire kindled by the electric bottle," 1748. He demonstrated the identity of the electric spark and lightning, drawing electricity from a cloud by a kite, in June, 1752. The application of electricity was shown by Watson and others in 1747, when electricity was transmitted by an insulated electric wire.

### Buchanan May Not Be Tried.

Federal Assistant District Attorney Raymond H. Sarfaty of New York says the government expects to put Representative Frank Buchanan and his associates connected in Labor's Peace Council on trial early in February. "Should the United States supreme court decide that the Clayton act exempts labor men from prosecution under the Sherman law the case against Buchanan, Hinton and others will have to be dropped," he said.

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